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APPLICATION N	10.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/866,236		05/25/2001	Mark Palmer	068354.1098	4565
23640	7590	10/03/2005		EXAM	INER
BAKER BOTTS, LLP			FULK, STEVEN J		
910 LOUISIANA HOUSTON, TX 77002-4995			ART UNIT	PAPER NUMBER	
				2891	
				DATE MAILED: 10/03/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		AK					
	Application No.	Applicant(s)					
	09/866,236	PALMER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Steven J. Fulk	2891					
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MOI tute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 25	5 May 2001.						
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.[D. 11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-23</u> is/are pending in the applicati	on.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-23</u> is/are rejected.	Claim(s) <u>1-23</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	d/or election requirement.						
Application Papers							
9) The specification is objected to by the Exam	iner.	·					
10)⊠ The drawing(s) filed on <u>25 May 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the corr	ection is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bure							
* See the attached detailed Office action for a l	ist of the certified copies not	received.					
Attachment(s)	🗂 .						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
Notice of Dransperson's Faterit Drawing Review (FFO-545) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date	🗆	Informal Patent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 2-5, 8, 9, 15, and 16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite in that it fails to point out what is included or excluded by the claim language. These claims are omnibus type claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art in view of Takata et al. '975.

Applicant discloses conventional infrared encoder/decoders used in the interface of a infrared communication device (IrDA standard) and a universal asynchronous receiver/transmitter (UART). More

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specifically, applicant's invention is not directed toward any new functions for an encoder/decoder pin. Rather, applicant's invention is directed toward an improved layout for a set of pins having conventional functions for the purpose of separating pins to simplify system board design (spec, pg. 14, lines 7-15).

Takata et al. discloses a semiconductor device having the input/output pins grouped together specifically to improve the chip layout and lower manufacturing cost (col. 4, lines 4-15), as well as reduce noise between the pins (col. 9, lines 22-37).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the concept of improving the chip layout and reducing noise of Takata et al. in the conventional encoder/decoder of the applicant. One would have been motivated to do this in order to reduce manufacturing cost and improve device performance. Furthermore, one of ordinary skill in the art would have expected applicant's invention to perform equally well in any pin grouping where board design is simplified, and thus the exact pin placement is considered a design choice.

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Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Ben-Efraim et al. '783, Lee et al. '583, Schoenfeld et al. '935, Kozuka '570, and Wakefield et al. '067 disclose semiconductor devices with package pins optimized for low noise and ease of manufacturing.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven J. Fulk whose telephone number is (571) 272-8323. The examiner can normally be reached on Monday through Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on (571) 272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

sjf 9/29/05

B. WILLIAM BAUMEISTER
SUPERVISORY PATENT EXAMINED